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1825 Samson Epilepsy

7. Shutter

History and Pathology

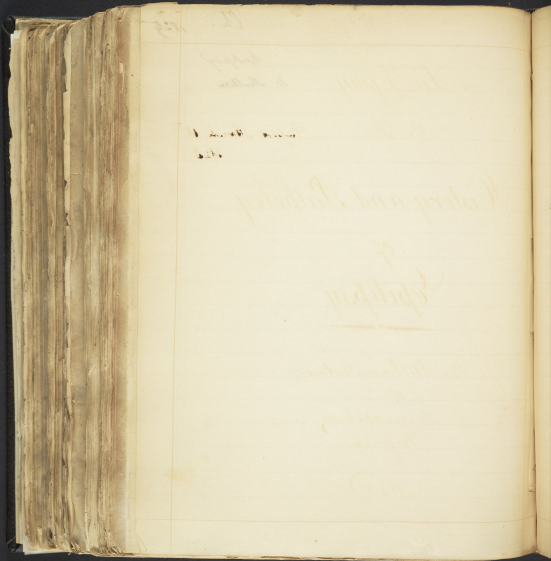
of
Epilepsy

By William Gowers

of
Gower's Hospital

London

(1825)



#18

An Essay

On The

Prevalence March 18th
1826

History and Pathology
of
Epilepsy

By William Shuttice
of
Fredericksburg
Virginia.

(1825)

To the

of the

History and Antiquities

of

Virginia

By William B. Lewis

of the
University of
Virginia.

1855

Epilepsy.

Non mihi est tempus averti

Ponere signa novis praeceptis. Hor.

Disease, the penalty incurred by the disobedience of our progenitors, assails man in such a variety of shapes and through so many avenues, that it would be impossible for the multifarious Proteus to represent, the wisdom of Solomon to explore, or the strength of Hercules to resist it. Striking impartially, the peasant in his hut, and the prince in his palace; it lays its iron hand on the head of supreme majesty and humble inferiority. Its power is not displayed in a more terrific form, or in a more insidious guise than when it seizes on the nervous system. This fabric, so exquisitely delicate & sensitive, is so intimately connected with the mental faculty, that when it is assailed by disease; it throws into confusion the most admirable of man's possessions.

-his mind. No diseases are more obscure in their character, or perplexing in their treatment, than those of the nervous system. They present themselves in a variety of forms, sometimes consuming by a gradual & prolonged disease, the vital principle; again they manifest themselves in a more violent and heart rending character, either throwing the subject of its violence into a "Dementia phrenzy, moping melancholy,

Or moon-struck madness."

Among the most untractable of the nervous affections, Epilepsy may be ranked. This disease has baffled the efforts of ages in repelling its violence, and in discerning its nature, it seems to be one of those arcana of Pandora, that is wound up in Gordian complication, and which cannot be unraveled by the most skillful and penetrating mind. Men, who have examined the most profound mysteries of Nature, who have explored the hidden treasures of our mother earth, who have ploughed the deep in a frail bark, directed in their course by the unvarying compass, and whose

minors have penetrated, 'beyond the visible diurnal sphere'; have failed in obtaining a correct knowledge of this most obscure & harassing complaint.

In pursuing a subject involved in so much mystery and obscurity, I can only collect together the observations & opinions of the most illustrious authors, and draw such inferences as their views may suggest. It may be necessary in conformity to the plan usually adopted to give, first, a history of its Symptoms.

An attack of epilepsy is sometimes, though not always attended by signs, which indicate an approach of the paroxysm. They are a languidness & torpor of the body, a pain or heaviness in the head, drowsiness or disturbed sleep, dimness of sight and tinnitus aurium. Many other premonitory symptoms have been enumerated by authors, the most unequivocal of which is the Aura Epileptica. This consists in a very peculiar sensation, which is differently represented by different persons; some

have the feeling produced by a gentle breeze flowing over the surface of the body, from which sensation it derives its name; others liken it to the creeping of an insect over the surface or to the pouring a stream of cold water from the inferior to the upper part of the body. The sensation always commences in some portion of the body, generally at the toes, and ascends to the head; as soon as it reaches the brain, the fit is said to commence. The cause of so singular a feeling, is not exactly determined; but it must evidently be seated in the nerves and through their medium transmitted to the brain. Dr. Cullen, has supposed & I conceive very correctly, that the aura epileptica is produced by some irritating matter applied to the nervous extremities; he has known it arise from something irritating or pressing upon a particular nerve, and that sometimes from a contusion or wound.

To collect together all the accompaning symptoms, would occupy more time & space than the occasion demands. Having noticed the most

striking we shall proceed to the fit or paroxysm. This, has been so beautifully portrayed by Lucretius in poetical language, and by Cullen with that philosophic accuracy & minute observation, which are characteristic of his works, that it would be presumptuous in me to attempt a description. I shall therefore give the words of the latter.

"The person attacked loses suddenly all sense & power of motion, so that, if standing he falls immediately or perhaps with convulsions is thrown to the ground. In that situation he is agitated with violent convulsions, variously moving his limbs & the trunk of his body. Commonly the limbs on one of the body are more violently or more considerably agitated than those upon the other. In all cases the muscles of the face & eyes are much affected, exhibiting various & violent distortions of the countenance. The tongue is often affected & thrust out of the mouth, while the muscles of the lower jaw are also affected and shutting the mouth with violence



while the tongue is thrust between the teeth, that is often
 grievously wounded. While these convulsions continue
 there is commonly at the same time a frothy moisture
 issuing from the mouth. These convulsions, have for
 some moments some remissions, but suddenly renewed
 with great violence. Generally, after no long time,
 the convulsions cease altogether, and the person for
 some time remains without motion, but in a state of
 absolute insensibility, & under the appearance of
 a profound sleep. After some continuance of this
 seeming sleep, the person sometimes suddenly, but for
 the most part by degrees only, recovers his senses
 & power of motion; but without any memory of
 what has passed from his being first seized
 with the fit. The state of the pulse varies in the
 different stages & according to the violence of the fit.
 It is generally small & irregular at the commence-
 -ment of the paroxysm, as it progresses, it becomes
 more full & strong, and returns to the healthy
 standard when the ^{fit} has worn off.

It is a very common error to suppose that the
ancient Egyptians were a very ignorant and
superstitious people. In fact, they were a very
civilized and enlightened people, and their
knowledge of astronomy, geometry, and
medicine was very advanced for their time.
They were also very skilled in the arts of
architecture and sculpture, and their
temples and tombs are still a marvel to
the world. The Egyptians were also very
skilled in the art of writing, and their
hieroglyphs were a very important part of
their culture. The Egyptians were also very
skilled in the art of war, and their
armies were very powerful. The Egyptians
were also very skilled in the art of
navigation, and their ships were very
large and fast. The Egyptians were also
very skilled in the art of medicine, and
their doctors were very famous. The
Egyptians were also very skilled in the
art of agriculture, and their crops were
very abundant. The Egyptians were also
very skilled in the art of commerce, and
their trade was very extensive. The
Egyptians were also very skilled in the
art of music, and their music was very
beautiful. The Egyptians were also very
skilled in the art of dance, and their
dancers were very famous. The Egyptians
were also very skilled in the art of
poetry, and their poets were very famous.
The Egyptians were also very skilled in
the art of philosophy, and their
philosophers were very famous. The
Egyptians were also very skilled in the
art of science, and their scientists were
very famous. The Egyptians were also
very skilled in the art of history, and
their historians were very famous. The
Egyptians were also very skilled in the
art of law, and their lawyers were very
famous. The Egyptians were also very
skilled in the art of politics, and their
politicians were very famous. The
Egyptians were also very skilled in the
art of religion, and their priests were very
famous. The Egyptians were also very
skilled in the art of magic, and their
magicians were very famous. The
Egyptians were also very skilled in the
art of astrology, and their astrologers were
very famous. The Egyptians were also
very skilled in the art of divination, and
their diviners were very famous. The
Egyptians were also very skilled in the
art of fortune-telling, and their fortune-
tellers were very famous. The Egyptians
were also very skilled in the art of
sorcery, and their sorcerers were very
famous. The Egyptians were also very
skilled in the art of witchcraft, and their
witches were very famous. The Egyptians
were also very skilled in the art of
black magic, and their black magicians
were very famous. The Egyptians were
also very skilled in the art of white
magic, and their white magicians were
very famous. The Egyptians were also
very skilled in the art of spiritism, and
their spiritists were very famous. The
Egyptians were also very skilled in the
art of necromancy, and their necromancers
were very famous. The Egyptians were
also very skilled in the art of alchemy,
and their alchemists were very famous.
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The exertions and exertions are more or less affected, do little observe, that bile in great quantities is in some ejected from the stomach, and a thick viscid saliva from the mouth. Not unfrequently the feces & urine are involuntarily and forcibly discharged "Erigitur quoque penis in infantibus, in adultis uentibus, semen ejicitur." These are the phenomena observed in a regular paroxysm of epilepsy; they however vary according to the violence & duration of the attack. Patients, are more susceptible to a fit, immediately after having awoken from sleep; sometimes they are roused suddenly from asleep, by the approach of a paroxysm. Darwin attributes this liability to the disease at such a period, to an increase of sensibility. The return of a paroxysm is very variable generally, though sometimes periodically recurring every week, month, or year.

It has no regard for age, sex, condition or habit: affecting equally the young & old, male & female, the grave as well as the gay.

The number one million is written 1,000,000
The number two million is written 2,000,000
The number three million is written 3,000,000
The number four million is written 4,000,000
The number five million is written 5,000,000
The number six million is written 6,000,000
The number seven million is written 7,000,000
The number eight million is written 8,000,000
The number nine million is written 9,000,000
The number ten million is written 10,000,000
The number eleven million is written 11,000,000
The number twelve million is written 12,000,000
The number thirteen million is written 13,000,000
The number fourteen million is written 14,000,000
The number fifteen million is written 15,000,000
The number sixteen million is written 16,000,000
The number seventeen million is written 17,000,000
The number eighteen million is written 18,000,000
The number nineteen million is written 19,000,000
The number twenty million is written 20,000,000

Some authors and among them Weberden assert that the male are more frequently its subjects than the female. This, however, does not comport with the experience of most authors, so that this distinction cannot be drawn. Children, are certainly more obnoxious to this disease, and it may be ascribed to the many incidental causes, they are liable to be subjected. An epileptic paroxysm in children is apt to terminate in death: this is not often the result in adults, though sometimes vitality is extinguished by the force & intensity of the shock. Its effects, when death is not the immediate consequence, are often very distressing: frequently apoplexy is produced, sometimes paralysis, and in others & other affections of the mental faculty, are frequent consequences of this malady. The most alarming & disagreeable concomitant is the *Mania Epileptica*. Dr Writchard says "this affection generally appears when the patient is expected to revive from a comatose state consequent on a severe fit; the face is flushed & the aspect of

the patient is like that of a man under intoxication, he attempts to start from bed, and run about, & being withheld vociferates & endeavours to overcome resistance. Sometimes an appearance of maniacal hallucination displays itself, but more generally the disorder resembles phrenitic delirium. It commonly continues one, two, or three days during which the patient requires confinement in a straight waistcoat, & then gradually subsides, & the patient returns into his usual state."

Epilepsy, it has been remarked, will frequently disappear in children on their approach to puberty & in young females it will be often repulsed by the appearance of the catamenia. There, however, are not always the fortunate results of this incisive disease, but it sometimes remains a lasting evil, rendering the life of the person, who is so unfortunate as to be its victim, wretched, from the continual apprehension of an attack. From this persistent enemy, their pleasures, are lessened and

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his mind oppressed by the consciousness of his having
within his Groom, a viper that will know his body
and extinguish life.

'Horrid to think, now horrible to feel.'

After this cursory view of the phenomena of epilepsy it
will be necessary to notice its

CAUSES.

There are more extensive than belong to any other dis-
ease, to which the Human Frame is subjected. It cannot
therefore, be expected that the whole of them, will be
mentioned in this paper. A state, of the system pre-
disposing to this affection has been noticed by most
writers on this subject. In what this predisposition
consists ^{is not} determined. Dr Cullen mentions a certain
condition of the brain, which is called by him a mor-
bidity of this organ, & is supposed to exist in those
persons, who are of a fickle & changeable dispo-
sition equally prone to gaiety & anger; "qui colli-
get ac ponit iram temere et mutatur in horas." this
says he is the "varium et mutabile fœmina".

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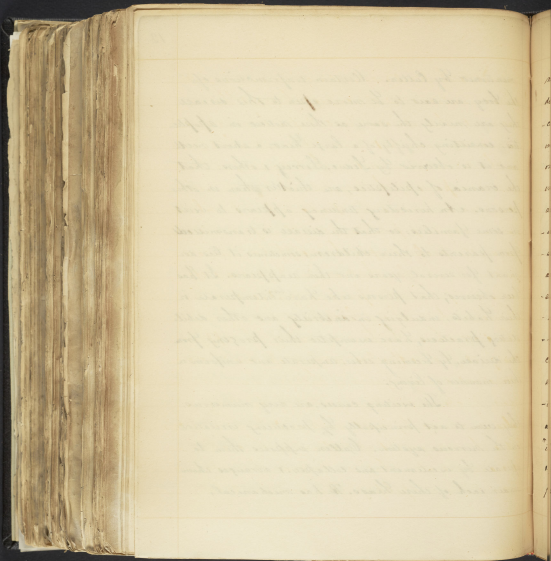
He considers this mobility to consist in either ex-
 -cess of sensibility or irritability, which renders the
 acting cause more ready in its effects. From this
 easy susceptibility to an impression, made by an
 excitant. That debility predisposes to this disease
 we cannot doubt, as we have the satisfactory obser-
 -vations of the most acute observers: among others Dr Cullen
 is convinced that is the fact from the circumstance
 of women, children, & persons of a debilitated condition
 being mostly subject to this disease. Although, debil-
 -ity may act as a predisponent, it is a necessary at-
 -tendant, as we find the most athletic & robust habits,
 are seized on by this foe, and prostrate at his feet.

A plethoric habit has been commonly obser-
 -ved to render a person particularly susceptible to
 epilepsy. That it is capable of such an effect we
 have the positive evidence of Van Swieten, Gullen,
 Crosse & many others. Plethora in predisposing to
 this disease must operate, by increasing the ir-
 -ritability of the brain, by the stimulus of overaction.

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mentioned by Cullen. Certain conformations of the body, are said to be more open to this disease, they are nearly the same as those noticed in apoplexies, consisting chiefly of a large head, a short neck and it is observed by Leake, Lorry, & others, that the crania of epileptics, are thicker than in other persons. An hereditary tendency appears to exist in some families, so that the disease is transmitted from parents to their children; sometimes it lies dormant for several years and then reappears. It has been observed, that persons who have ^{been} intemperate in their habits, indulging in inebriety and other debilitating practices, have exempted their progeny from the disease, by becoming sober, temperate and uniform in their manner of living.

The exciting causes, are very numerous. They seem to act principally by producing irritation on the nervous system. Cullen supposes them to operate by excitement and collapse, & arranges them under each of these heads. He has mechanical,



mental, & the peculiar stimulus of over distention. This division embraces all the causes which act by excitement; those operating by collapse he arranges individually under that head. The causes, which bring on this disease may exist in the brain itself, or be seated in remote parts of the body. Thus we find the skull acting as an irritant, by apicula or bony protuberances, shooting from its internal surface and consequently pressing upon the meninges, tumors arising from within the cranium, Hydras & effusions are frequently found to exist, and are mentioned in the morbid dissections of Morgagni, Baillie & all others who have written on the appearance post-mort. Abscesses, extensive effusions, and even structural disorganization of the Brain have been noticed by Morgagni. Engorgement of the Brain is also mentioned by most writers; Dr Lobstein observes "it is the derangement of Balance in the circulation & excitement alone that can produce the immediate phenomena of epilepsy." This constitutes Dr Cullen's

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Fourth division of the cause acting by excitement, & what he conceives an overdistention of the vascular system of the Brain. That such a cause he observes will operate in producing epilepsy is probable from this, that the dissections of persons dead of this disease, has commonly discovered the marks of a previous congestion in the Vessels of the Brain. This observation is confirmed by Morgagni and others who have examined the epileptic post mortem.

Among the many causes acting directly on the Brain, is a strong emotion of any of the passions. Terror, perhaps, oftener than any other passion has produced this disease: instances are related by almost every author on the subject. Dr Wootke, in his treatise on epilepsy, has collected together a number of interesting cases of the effects of alarm, some of which I shall take the liberty to mention. A lady, as related by Van Swieten, during pregnancy was so much alarmed by a fire in the neighbourhood, that she fell into convulsions.

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Fits which ultimately prove fatal. Lepot, saw a female thrown into convulsive Fits, upon receiving an insult from a dissolute fellow; from which she never recovered. Out of fourteen patients under the care of a German physician, at Vienna as she were induced by terror; a strong evidence of the power this passion possesses of the earnest with which it should be avoided. On the horrible 10th August, when such a dreadful massacre ensued at Paris, a young man, was so strongly affected by the scene as to become epileptic.

Impressions, made on the senses by strong occurs, have been assigned as a cause of this disease; Dr Cullen is disposed to attribute their action to Terror. The passions, are often roused, in public assemblies, where political subjects, are discussed, to such a height, as to bring on this disorder; as frequently did it occur in the Comitia of the Romans, that it obtained the name of *Morbus Comitialis*, and was killed in such

